

Title (en)
EXTENDED OR MULTIPLE REACTION ZONES IN SCRUBBING APPARATUS

Title (de)
ERWEITERTE ODER MEHRFACHE REAKTIONSZONEN BEI EINER WASCHVORRICHTUNG

Title (fr)
ZONES DE RÉACTION ÉTENDUES OU MULTIPLES DANS UN APPAREIL D'ÉPURATION

Publication
EP 2986356 A4 20170118 (EN)

Application
EP 14785131 A 20140415

Priority
• US 201361812206 P 20130415
• US 201414213973 A 20140314
• US 2014034136 W 20140415

Abstract (en)
[origin: US2014308186A1] Some industrial or fabrication processes generate effluent gas streams that require scrubbing. Scrubbing may include the use of one or more gases to abate the effluents for safer release into the environment. Systems and methods described herein provide a liquid-enclosed reaction chamber where an extended reaction zone or more than one reaction zone is formed. By having an extended reaction zone or more than one reaction zone, the effluent gas stream and the products of upstream reaction zones can be more completely abated. The reaction zones are formed by adding one or more gas ports into the reaction chamber downstream of a main burner nozzle.

IPC 8 full level
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Citation (search report)
• [XII] US 5123836 A 19920623 - YONEDA NORIYUKI [JP], et al
• [XII] US 2005135984 A1 20050623 - FERRON SHAWN [US], et al
• [XII] US 2003054299 A1 20030320 - KAWAMURA KOTARO [JP], et al
• See also references of WO 2014172338A1

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US 2014308186 A1 20141016; **US 9023303 B2 20150505**; EP 2986356 A1 20160224; EP 2986356 A4 20170118; EP 2986356 B1 20240522; JP 2016520788 A 20160714; JP 5996147 B2 20160921; KR 102172774 B1 20201102; KR 20150140755 A 20151216; US 2014308187 A1 20141016; US 9138679 B2 20150922; WO 2014172338 A1 20141023

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